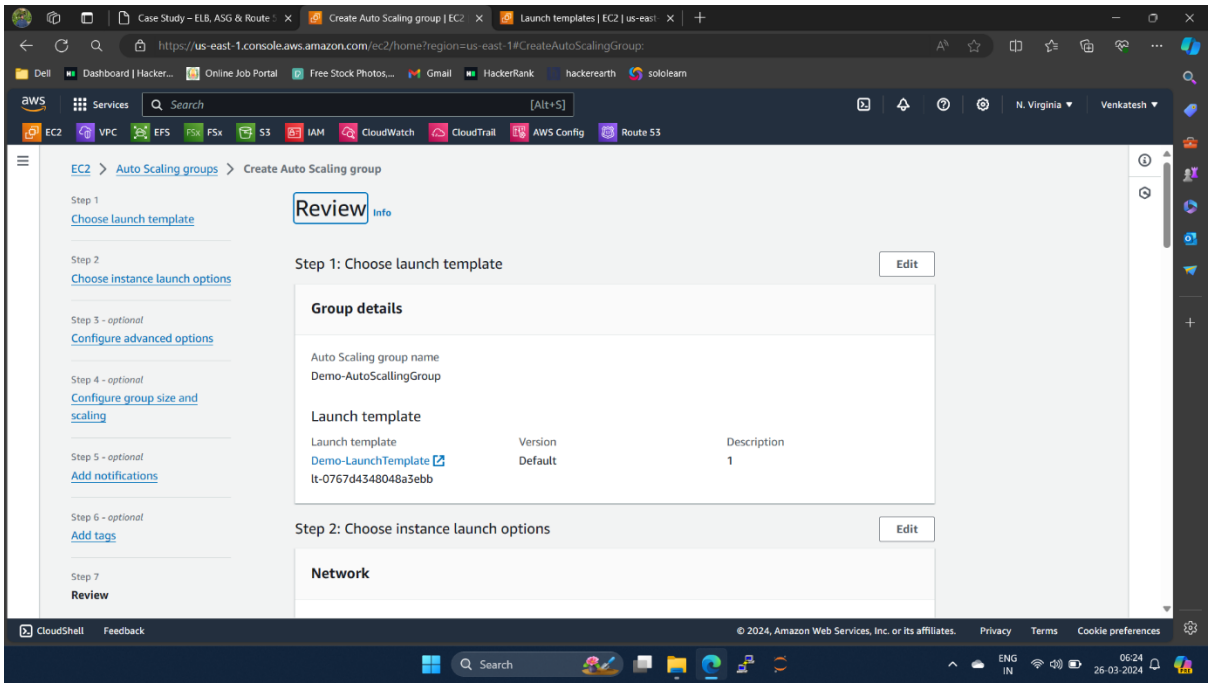
ELB & ROUTE 53


Case Study – ELB, ASG & Route
Create Auto Scaling group | EC2
Launch templates | EC2 | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Dell
Dashboard | Hacker...
Online Job Portal
Free Stock Photos,...
Gmail
HackerRank
hackerearth
sololearn
aws
Services
Search
[Alt+S]
N. Virginia
Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
EC2 > Auto Scaling groups > Create Auto Scaling group
Step 1
Choose launch template
Step 2
Choose instance launch options
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Review Info
Step 1: Choose launch template
Edit
Group details
Auto Scaling group name
Demo-AutoScallingGroup
Launch template
Launch template
Demo-LaunchTemplate
lt-0767d4348048a3ebb
Version
Default
Description
1
Step 2: Choose instance launch options
Edit
Network
CloudShell
Feedback
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Privacy
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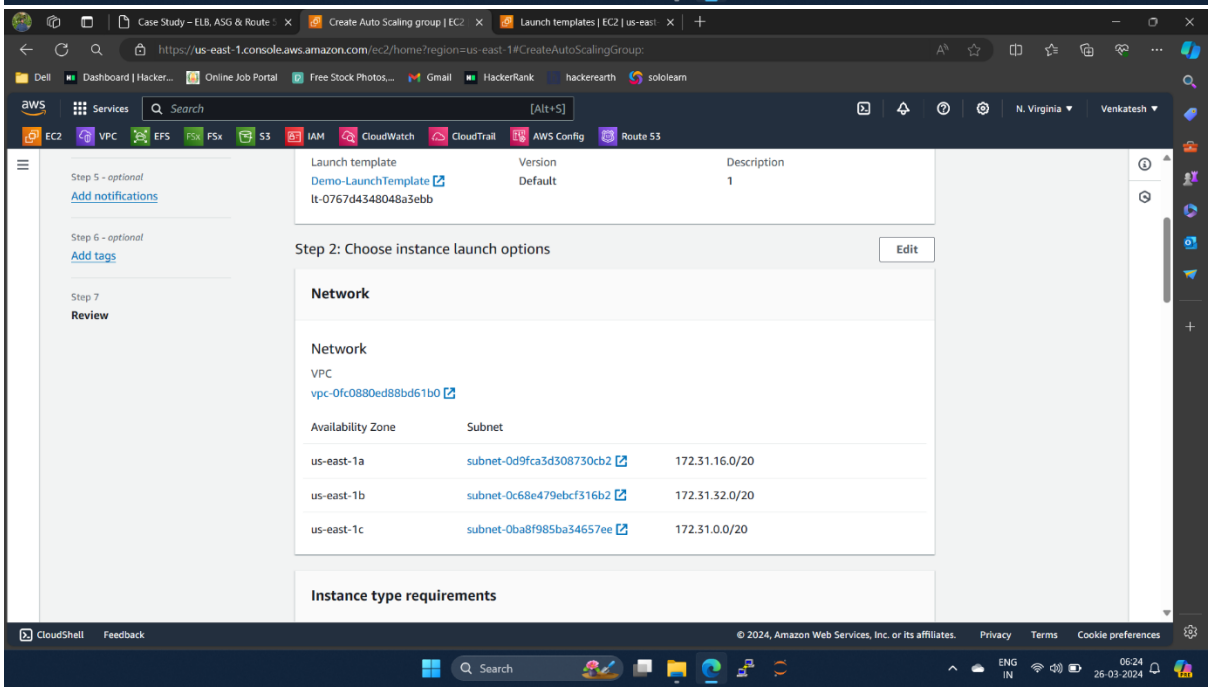
Cookie preferences
Search
ENG
IN
06:24
26-03-2024


Case Study – ELB, ASG & Route
Create Auto Scaling group | EC2
Launch templates | EC2 | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Dell
Dashboard | Hacker...
Online Job Portal
Free Stock Photos,...
Gmail
HackerRank
hackerearth
sololearn
aws
Services
Search
[Alt+S]
N. Virginia
Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Launch template
Demo-LaunchTemplate
lt-0767d4348048a3ebb
Version
Default
Description
1
Step 2: Choose instance launch options
Edit
Network
Network
VPC
vpc-0fc0880ed88bd61b0
Availability Zone
Subnet
us-east-1a
subnet-0d9fca3d308730cb2
172.31.16.0/20
us-east-1b
subnet-0c68e479ebcf316b2
172.31.32.0/20
us-east-1c
subnet-0ba8f985ba34657ee
172.31.0.0/20
Instance type requirements
CloudShell
Feedback
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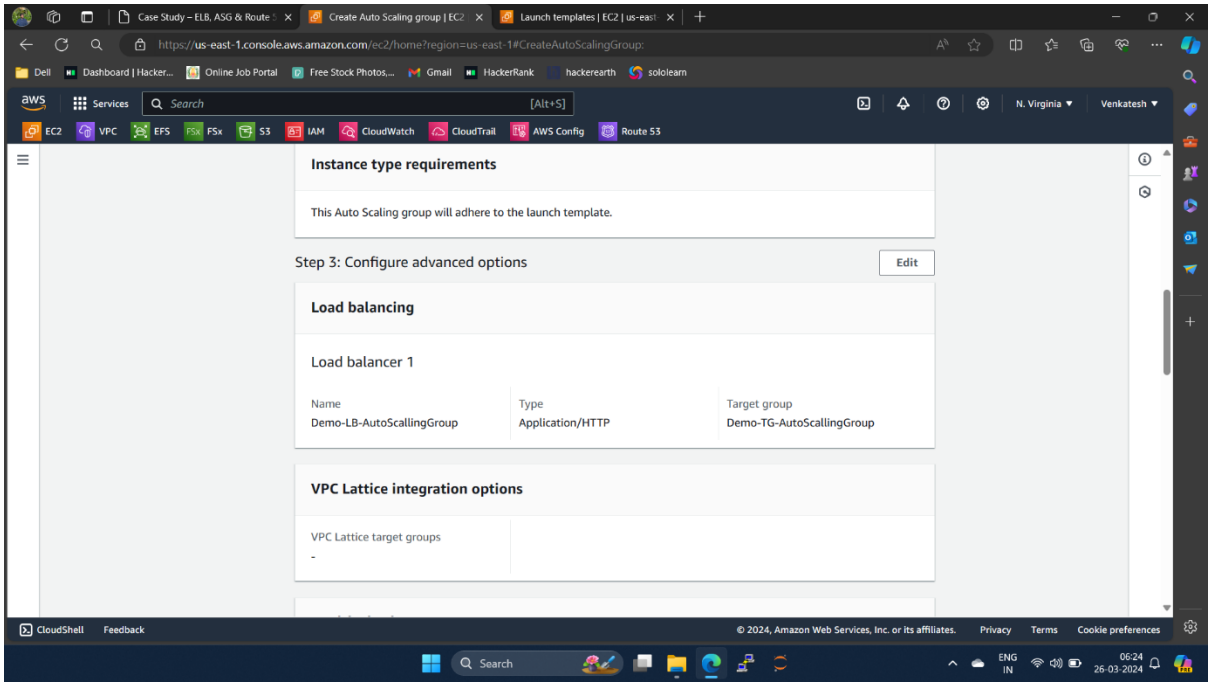
26-03-2024


Case Study – ELB, ASG & Route
Create Auto Scaling group | EC2
Launch templates | EC2 | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Dell
Dashboard | Hacker...
Online Job Portal
Free Stock Photos,...
Gmail
HackerRank
hackerearth
sololearn
aws
Services
Search
[Alt+S]
N. Virginia
Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
Instance type requirements
This Auto Scaling group will adhere to the launch template.
Step 3: Configure advanced options
Edit
Load balancing
Load balancer 1
Name
Demo-LB-AutoScallingGroup
Type
Application/HTTP
Target group
Demo-TG-AutoScallingGroup
VPC Lattice integration options
VPC Lattice target groups
-
CloudShell
Feedback
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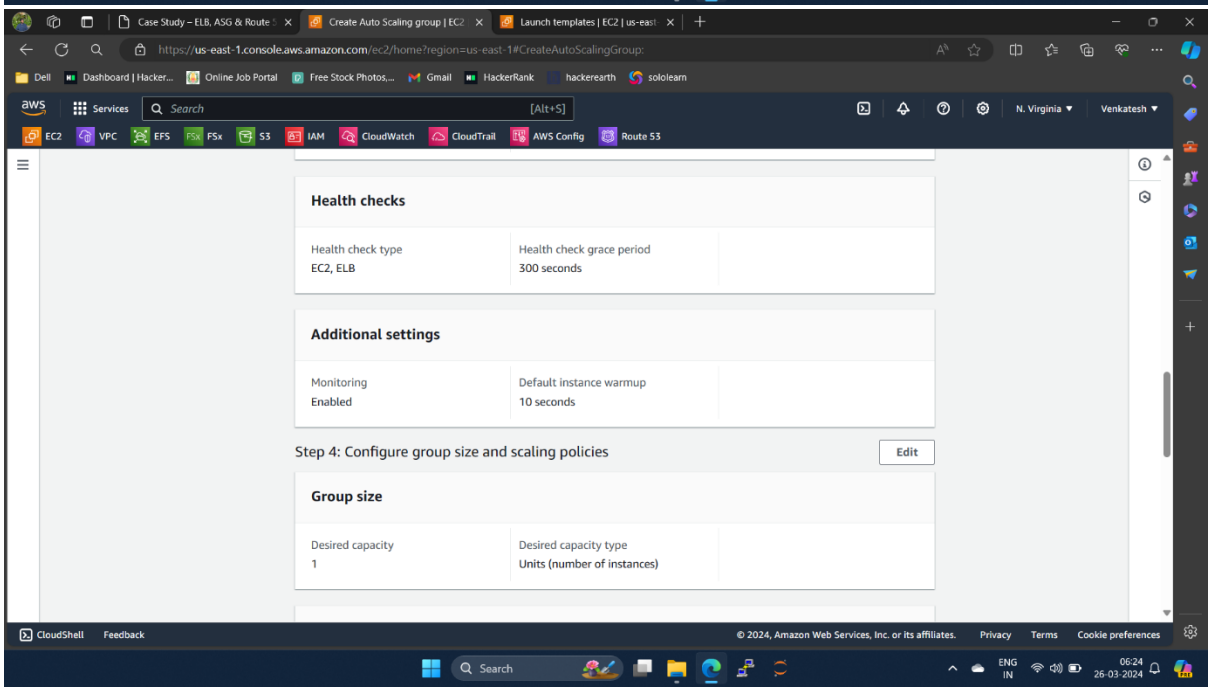
Case Study – ELB, ASG & Route
Create Auto Scaling group | EC2
Launch templates | EC2 | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Dell
Dashboard | Hacker...
Online Job Portal
Free Stock Photos,...
Gmail
HackerRank
hackerearth
sololearn
aws
Services
Search
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N. Virginia
Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
Health checks
Health check type
EC2, ELB
Health check grace period
300 seconds
Additional settings
Monitoring
Enabled
Default instance warmup
10 seconds
Step 4: Configure group size and scaling policies
Edit
Group size
Desired capacity
1
Desired capacity type
Units (number of instances)
CloudShell
Feedback
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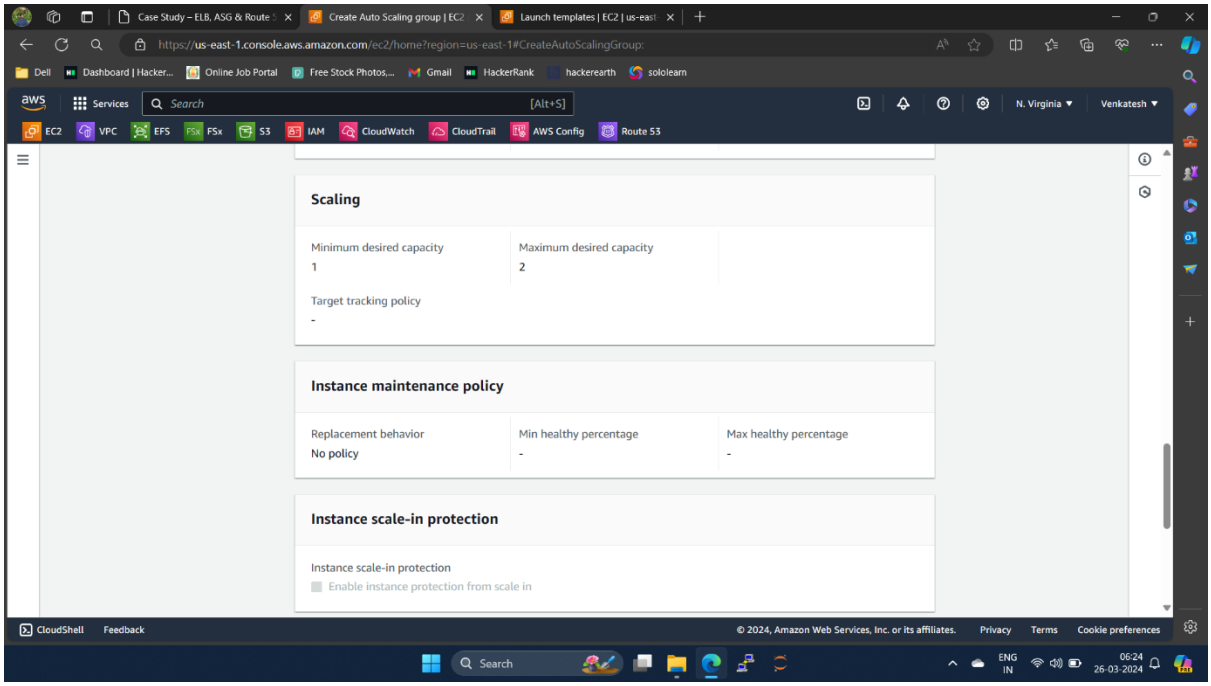
Case Study – ELB, ASG & Route
Create Auto Scaling group | EC2
Launch templates | EC2 | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Dell
Dashboard | Hacker...
Online Job Portal
Free Stock Photos,...
Gmail
HackerRank
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N. Virginia
Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
Scaling
Minimum desired capacity
1
Maximum desired capacity
2
Target tracking policy
-
Instance maintenance policy
Replacement behavior
No policy
Min healthy percentage
-
Max healthy percentage
-
Instance scale-in protection
Instance scale-in protection
Enable instance protection from scale in
CloudShell
Feedback
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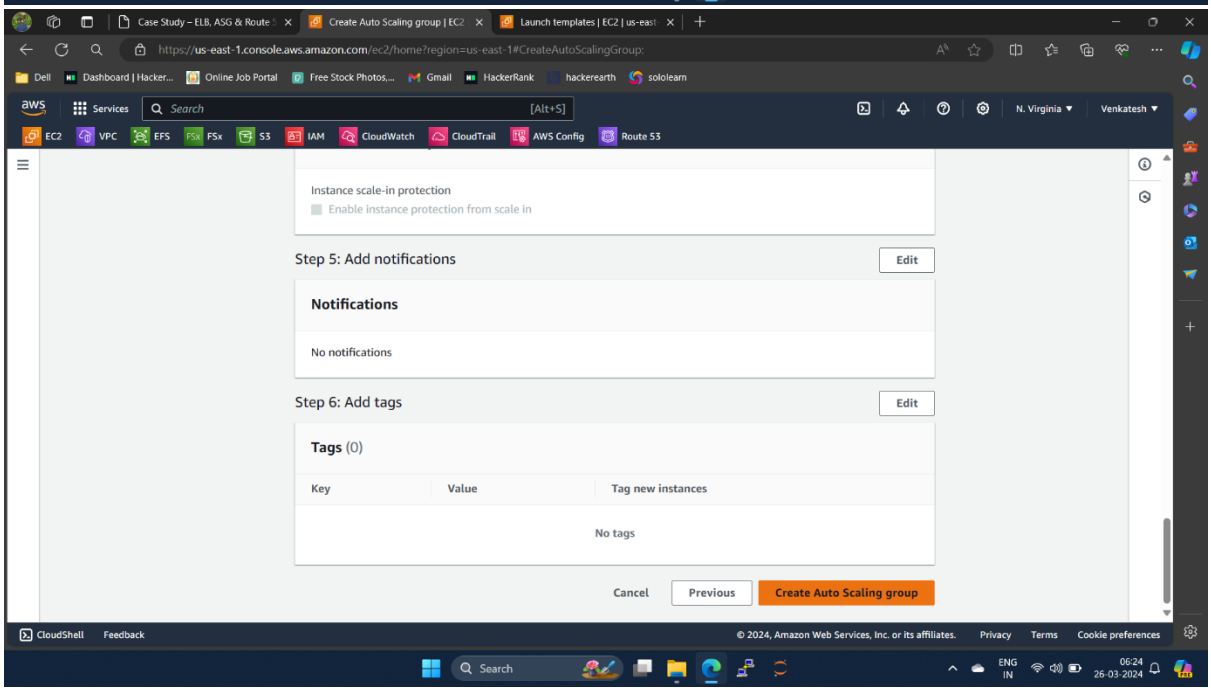
26-03-2024


Case Study – ELB, ASG & Route
Create Auto Scaling group | EC2
Launch templates | EC2 | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
Dell
Dashboard | Hacker...
Online Job Portal
Free Stock Photos,...
Gmail
HackerRank
hackerearth
sololearn
aws
Services
Search
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Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
Instance scale-in protection
Enable instance protection from scale in
Step 5: Add notifications
Edit
Notifications
No notifications
Step 6: Add tags
Edit
Tags (0)
Key
Value
Tag new instances
No tags
Cancel
Previous
Create Auto Scaling group
CloudShell
Feedback
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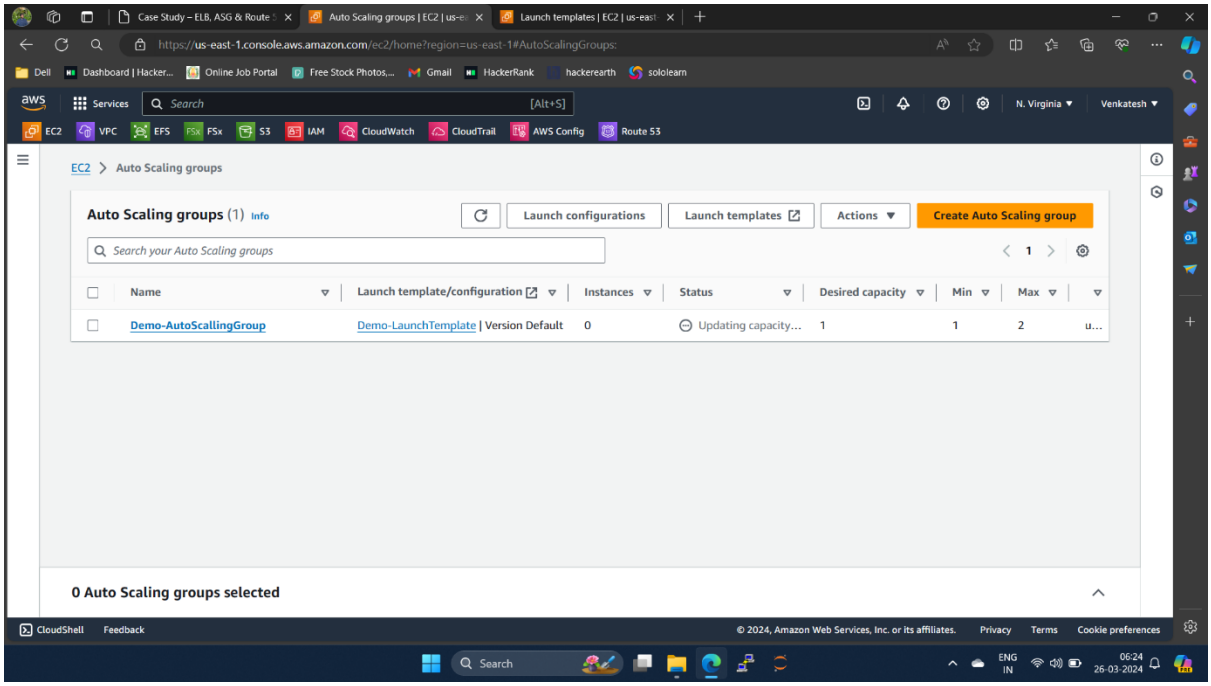
26-03-2024


Auto Scaling groups | EC2 | us-east-1
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:
Services
Search
[Alt+S]
N. Virginia
Venkatesh
EC2
VPC
EFS
FSx
S3
IAM
CloudWatch
CloudTrail
AWS Config
Route 53
EC2 > Auto Scaling groups
Auto Scaling groups (1) Info
Launch configurations
Launch templates
Actions
Create Auto Scaling group
Search your Auto Scaling groups
Name
Launch template/configuration
Instances
Status
Desired capacity
Min
Max
Demo-AutoScallingGroup
Demo-LaunchTemplate | Version Default
0
Updating capacity...
1
1
2
0 Auto Scaling groups selected
CloudShell
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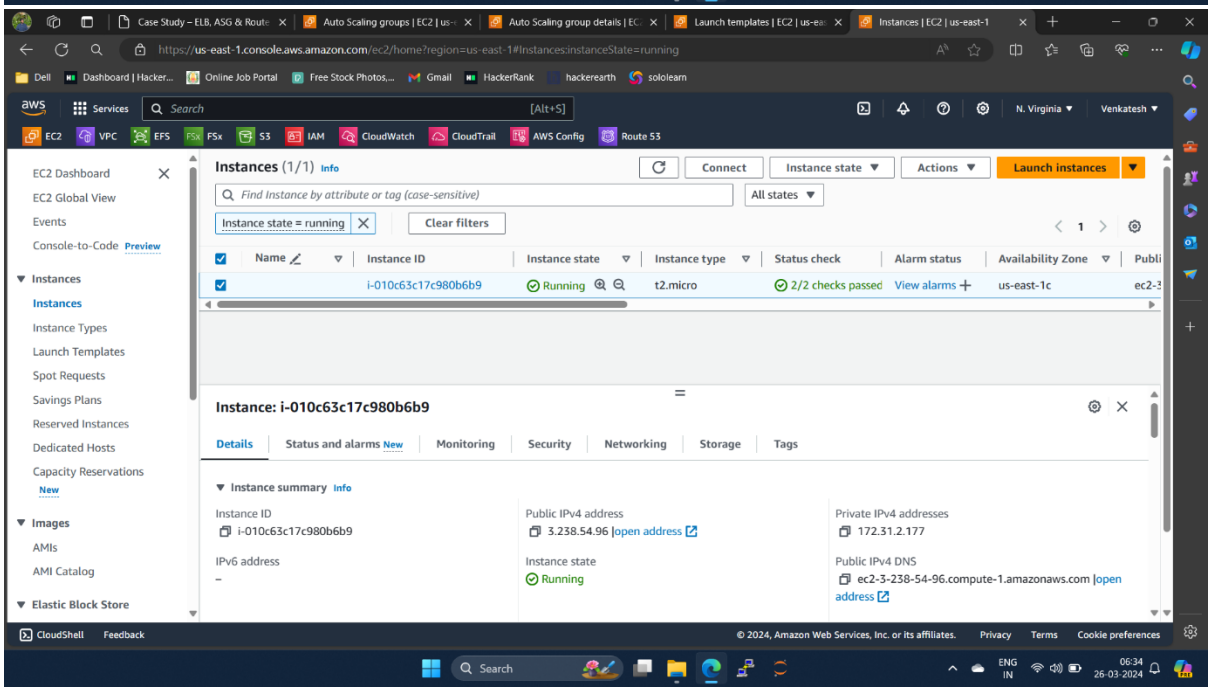
Instances | EC2 | us-east-1
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
i-010c63c17c980b6b9
Running
t2.micro
2/2 checks passed
View alarms
us-east-1c
Instance: i-010c63c17c980b6b9
Details
Status and alarms New
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-010c63c17c980b6b9
Public IPv4 address
3.238.54.96 |open address
Private IPv4 addresses
172.31.2.177
IPv6 address
-
Instance state
Running
Public IPv4 DNS
ec2-3-238-54-96.compute-1.amazonaws.com |open address
CloudShell
Feedback
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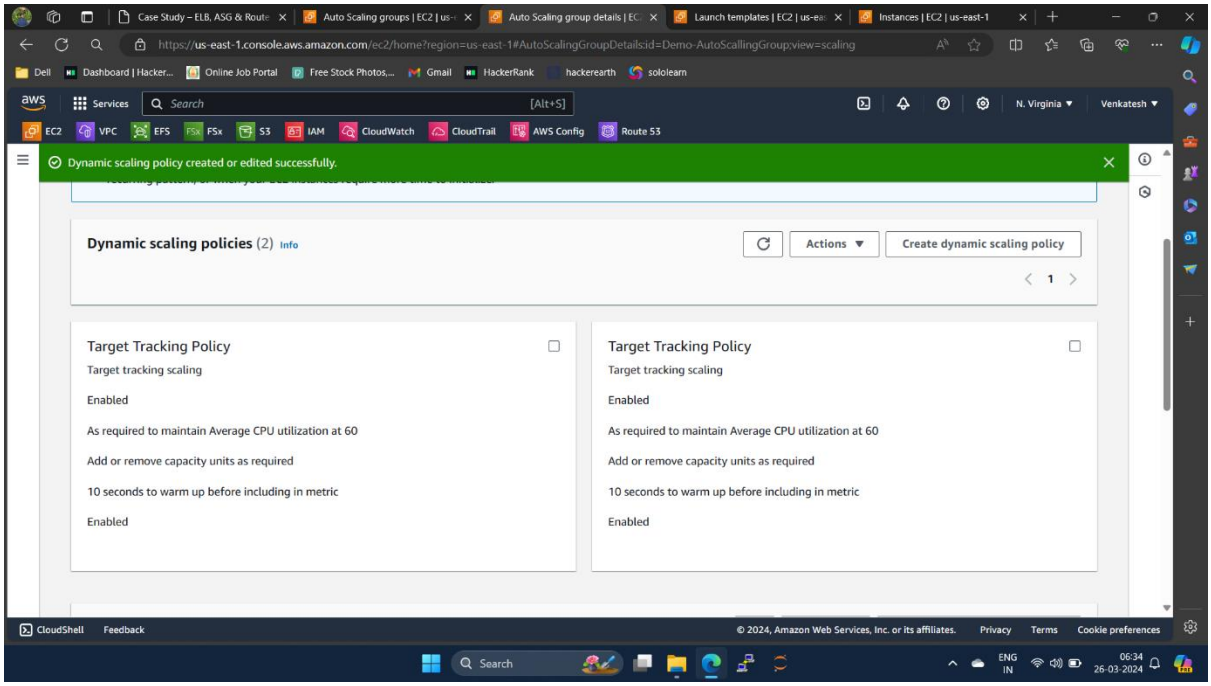
Dynamic scaling policy created or edited successfully.
Dynamic scaling policies (2) Info
Actions
Create dynamic scaling policy
Target Tracking Policy
Target tracking scaling
Enabled
As required to maintain Average CPU utilization at 60
Add or remove capacity units as required
10 seconds to warm up before including in metric
Enabled
Target Tracking Policy
Target tracking scaling
Enabled
As required to maintain Average CPU utilization at 60
Add or remove capacity units as required
10 seconds to warm up before including in metric
Enabled
CloudShell
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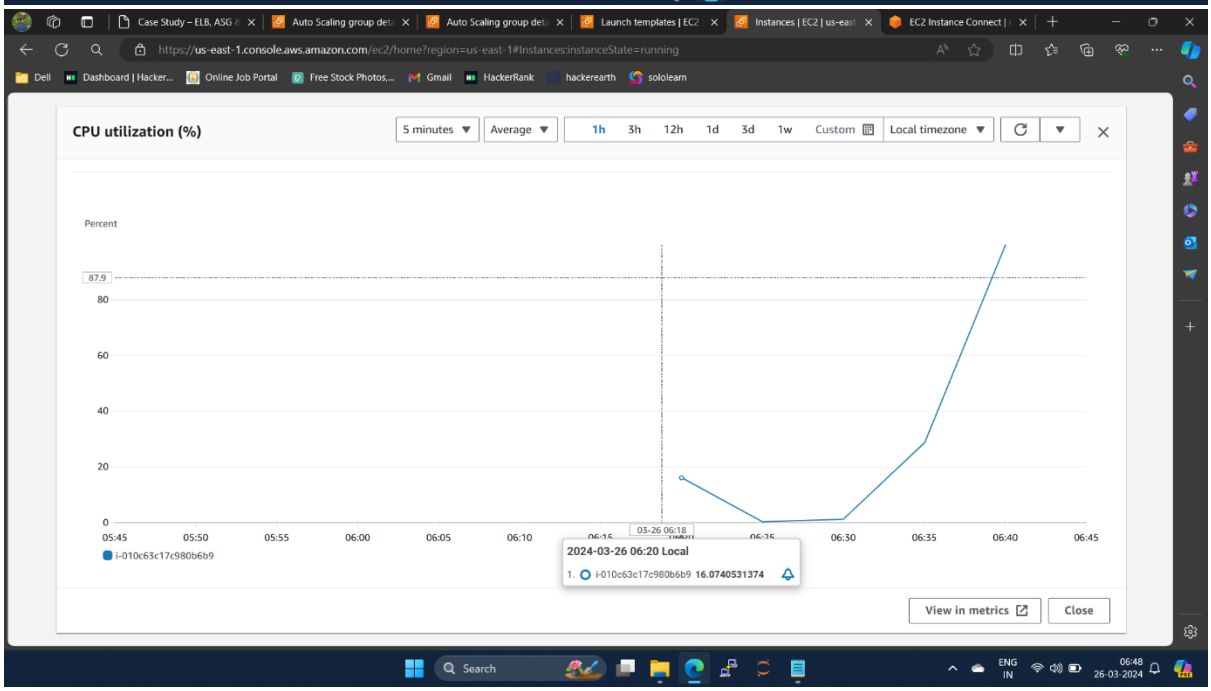
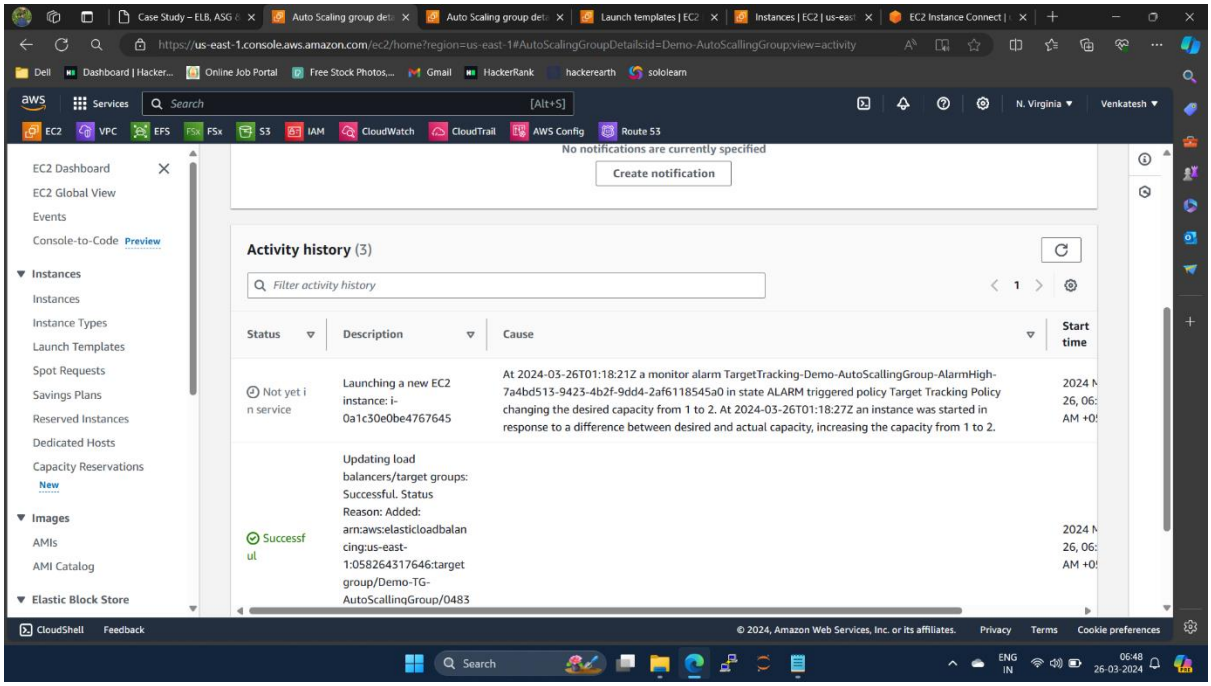
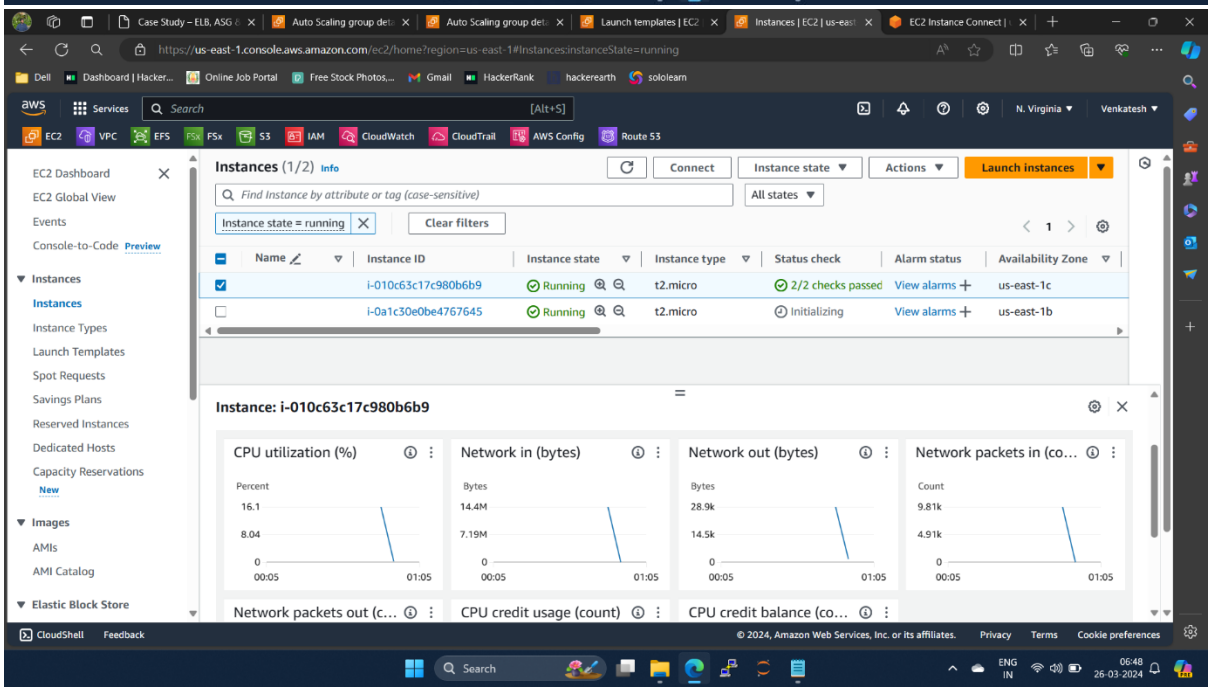
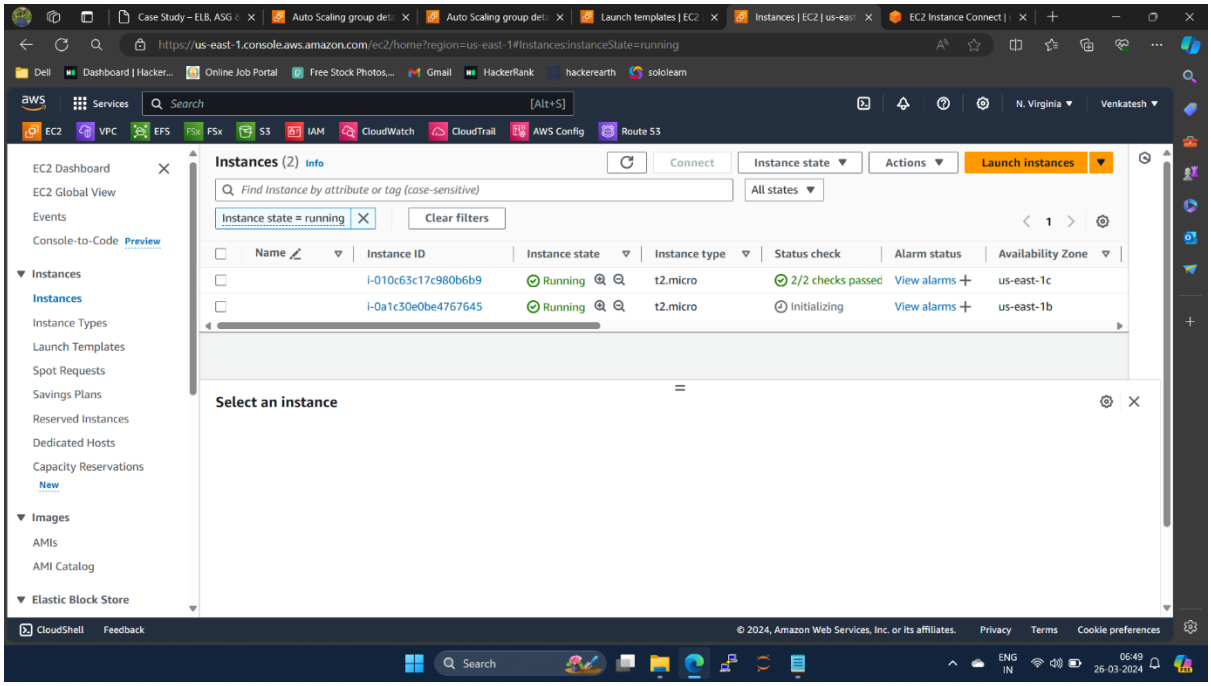

CPU utilization (%)
5 minutes
Average
1h
3h
12h
1d
3d
1w
Custom
Local timezone
Percent
87.9
80
60
40
20
0
05:45
05:50
05:55
06:00
06:05
06:10
06:30
06:35
06:40
06:45
i-010c63c17c980b6b9
2024-03-26 06:20 Local
1. i-010c63c17c980b6b9 16.0740531374
View in metrics
Close


No notifications are currently specified
Create notification
Activity history (3)
Filter activity history
Status
Description
Cause
Start time
Not yet in service
Launching a new EC2 instance: i-0a1c30e0be4767645
At 2024-03-26T01:18:21Z a monitor alarm TargetTracking-Demo-AutoScallingGroup-AlarmHigh-7a4bd513-9423-4b2f-9dd4-2af6118545a0 in state ALARM triggered policy Target Tracking Policy changing the desired capacity from 1 to 2. At 2024-03-26T01:18:27Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 1 to 2.
Successful
Updating load balancers/target groups: Successful. Status Reason: Added: arn:aws:elasticloadbalancing:us-east-1:058264317646:targetgroup/Demo-TG-AutoScallingGroup/0483


Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
i-010c63c17c980b6b9
Running
t2.micro
2/2 checks passed
View alarms
us-east-1c
i-0a1c30e0be4767645
Running
t2.micro
Initializing
View alarms
us-east-1b
Instance: i-010c63c17c980b6b9
CPU utilization (%)
Network in (bytes)
Network out (bytes)
Network packets in (co…
Network packets out (c…
CPU credit usage (count)
CPU credit balance (co…


Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
i-010c63c17c980b6b9
Running
t2.micro
2/2 checks passed
View alarms
us-east-1c
i-0a1c30e0be4767645
Running
t2.micro
Initializing
View alarms
us-east-1b
Select an instance
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
CloudShell
Feedback
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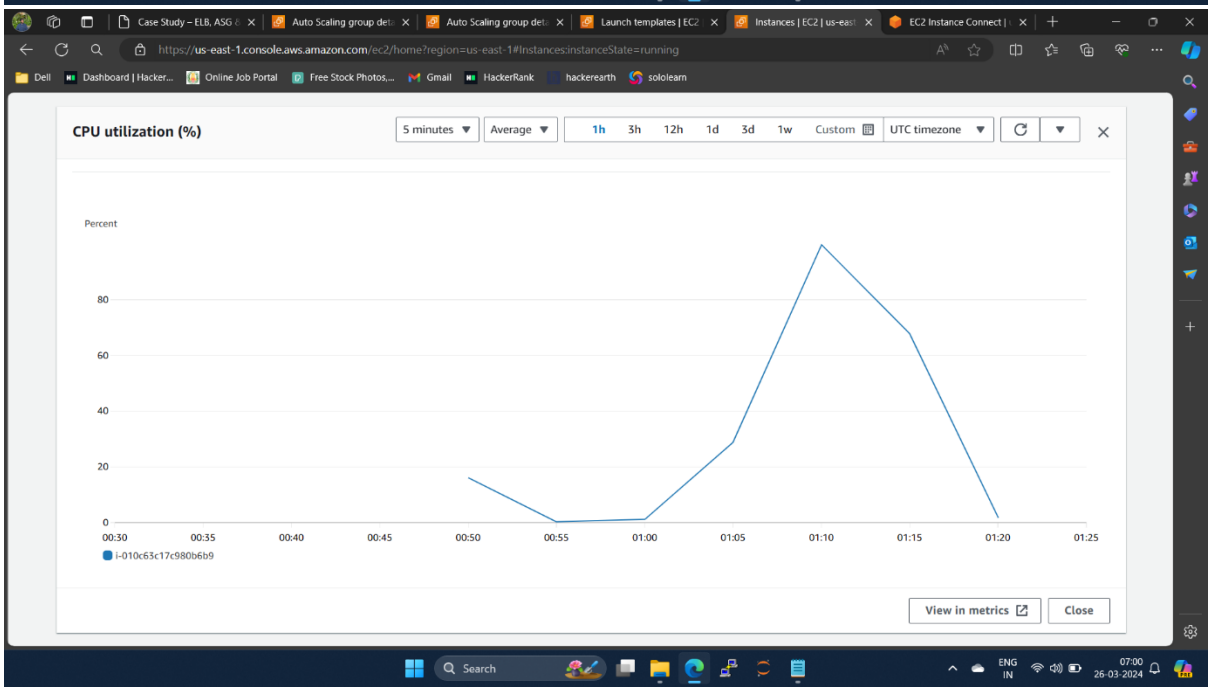
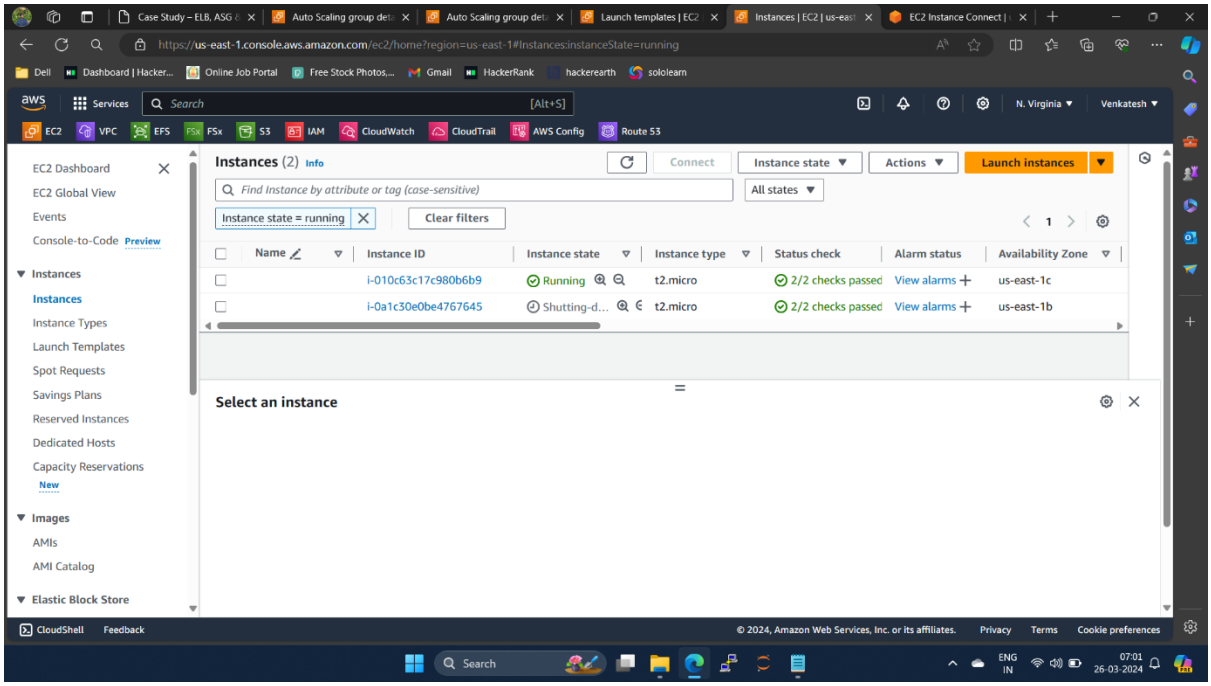

CPU utilization (%)
5 minutes
Average
1h
3h
12h
1d
3d
1w
Custom
UTC timezone
Percent
80
60
40
20
0
00:30
00:35
00:40
00:45
00:50
00:55
01:00
01:05
01:10
01:15
01:20
01:25
i-010c63c17c980b6b9
View in metrics
Close


Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
i-010c63c17c980b6b9
Running
t2.micro
2/2 checks passed
View alarms
us-east-1c
i-0a1c30e0be4767645
Shutting-d...
t2.micro
2/2 checks passed
View alarms
us-east-1b
Select an instance
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
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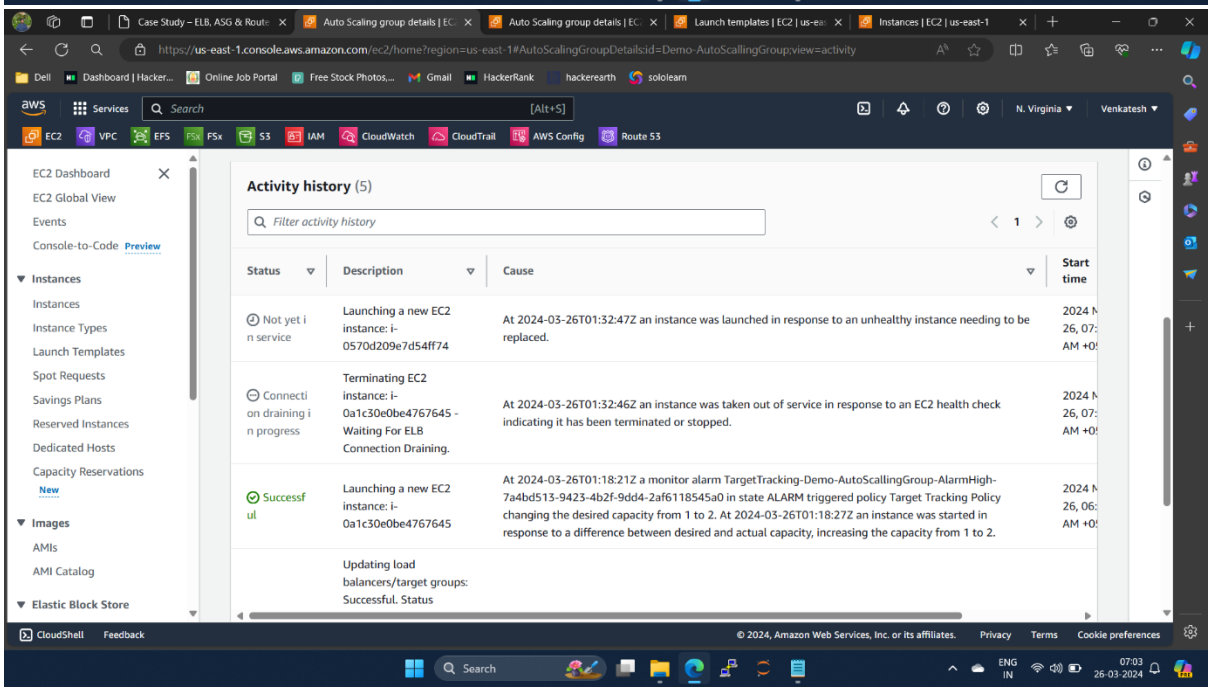
Activity history (5)
Filter activity history
Status
Description
Cause
Start time
Not yet in service
Launching a new EC2 instance: i-0570d209e7d54ff74
At 2024-03-26T01:32:47Z an instance was launched in response to an unhealthy instance needing to be replaced.
Connection on draining in progress
Terminating EC2 instance: i-0a1c30e0be4767645 - Waiting For ELB Connection Draining.
At 2024-03-26T01:32:46Z an instance was taken out of service in response to an EC2 health check indicating it has been terminated or stopped.
Successful
Launching a new EC2 instance: i-0a1c30e0be4767645
At 2024-03-26T01:18:21Z a monitor alarm TargetTracking-Demo-AutoScallingGroup-AlarmHigh-7a4bd513-9423-4b2f-9dd4-2af6118545a0 in state ALARM triggered policy Target Tracking Policy changing the desired capacity from 1 to 2. At 2024-03-26T01:18:27Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 1 to 2.
Updating load balancers/target groups: Successful. Status
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
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Go to route 53

- Click on hosted zone
- Create hosted zone
  * Enter the domain name (venuss.com)
  * Enter the description for the hosted zone
  * Select public hosted zone in the TYPE option
  * Click create hosted zone
- My hosted zone has created , i have selected it
- There i see 2 record presented already
- Now i am going to create a record for my hosted zone
- Click create record
  * Record name - here i want to give the subdomain to my hosted zone name (**hello**.venuss.com){hello is my subdomain of my hosted zone}
  * Record type - A
  * [** I have created an EC2 instance with some website running on it and i copy the public ip of my instance and i paste it]
  * Value - paste the public ip of the ec2 instance in this value space
  * Click create record
- Now my record has been created
- Select that record
- I can see my record name [hello.venuss.com]
- Copy the record name and paste it on the browser
- It shows the website